

CLAIMS

What is claimed is:

1. A process of discharging and transferring upwardly fluidized particles from a dense fluidizing layer forming section to a high-velocity transferring section having a diameter which is smaller than the dense fluidized layer forming section, wherein at least one intermediate cylindrical section is provided between the dense fluidized layer forming section and the high-velocity transferring section.

2. The process according to claim 1 wherein the diameter of said intermediate cylindrical section is $1/3$ to $2/3$ time that of the dense fluidizing layer forming section.

3. The process according to claim 1 wherein the height of said intermediate cylindrical section is 1 to 6 times the diameter thereof.

4. The process according to claim 1 wherein said intermediate cylindrical section has the truncated cone ends connected to said dense fluidized layer forming section and said high-velocity transferring section, respectively.

5. The process according to claim 1 wherein the truncated cone end directly connected to said dense fluidizing layer forming section has an elevated angle of 40° to 80° .

6. The process according to claim 1 wherein only one intermediate cylindrical section is provided.

7. The process according to claim 1 wherein the average particle size of the fluidized particles is 30 to 90 μm , and the gas superficial speed for fluidization is 0.3 to 1.2 m/s in said dense fluidizing layer forming section and 3 to 30 m/s in said high-velocity transferring section.